



>>Entry Name: 3,4-Dimethylpyridine, 9CI

Synonym(s): 3,4-Lutidine, 8CI

CAS Registry Number: 583-58-4

Related CAS Registry Numbers(s): 27175-64-0

Structure by analogy with 2,3-Dimethylpyridine, [FWV38-Q](#)

Molecular Formula: C₇H₉N

Molecular Weight: 107.155

Accurate Mass: 107.073499

Percentage Composition: C 78.46%; H 8.47%; N 13.07%

Source/Synthesis: Constit. of coal tar and shale oil

Physical Description: Liq.

Boiling Point: Bp 163.5-164.5°. Bp₃₅ 81-85°

Solubility: Sol. EtOH, Et₂O

Density: d₄²⁵ 0.928

pKa Value: pK_a 6.46 (25°)

Refractive Index: n_D²⁵ 1.4995

Other Data: Steam-volatile

Hazard & Toxicity: Irritant. LD₅₀ (rat, orl) 677 mg/kg. LD₅₀ (rbt, skn) 134 mg/kg

Aldrich: L400-1

Fluka: 62780

Sigma: L5513

>>Derivative: Hydrochloride

CAS Registry Number: 36316-69-5

Physical Description: Hygroscopic needles

Melting Point: Mp 235-236°

>>Derivative: Picrate

Physical Description: Needles

Melting Point: Mp 161°

>>Derivative: N-Oxide

CAS Registry Number: 1796-86-7

Molecular Formula: C₇H₉NO

Molecular Weight: 123.154

Accurate Mass: 123.068414

Percentage Composition: C 68.27%; H 7.37%; N 11.37%; O 12.99%

Physical Description: Cryst. (Me₂CO)

Melting Point: Mp 138° (132-134°)

References:

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